

# Anchorage Amateur Radio Club

## Newsletter



The next General meeting is  
**November 1, 2018**  
**Radio Science and Operations**  
**Center (RSOC) Building - 7:00pm**  
**6721 Raspberry Road**  
**Anchorage, AK**



A sincere thank you goes to The Alaska Community Foundation for their grant to assist the Anchorage Amateur Radio Club, Inc. The Foundation has a fund called "Strengthening Organizations fund." It is this fund which granted the donation.

The grant will help us create, develop, and implement programs that support emergency response communications capabilities, a wide range of technical education to students of all ages, and amateur radio license exams.

More information regarding this organization can be found here: [www.alaskacf.org](http://www.alaskacf.org)

### Richard Land Diane M Block Foundation

An earnest thank you goes to the Richard L and Diane Block Foundation for their donation to refurbish the exterior of the RSOC building. The work completed has made the RSOC presentable to all that use it and its visitors.

# November 1, 2018 General Meeting

By Dave, N9AIG

The general meeting on November 1, 2018 will be a discussion about the AARC budget. Following this discussion, the budget will be presented and then considered for approval by the membership. There will also be a report from the Development Committee.

## Great Alaska ShakeOut 2018— Area Hams Participate

By [KENT PETTY](#)

Hams in the Anchorage, Mat-Su Valley, and Kenai Peninsula areas participated in the 2018 Great Alaska ShakeOut Earthquake Drill on October 18. At the appointed time, 10:18 a.m., from the Radio Science and Operations Center (RSOC) we announced on the KL7ION 147.30/90 repeater that the drill was starting and that pretend shaking had started. At 10:19 a.m., we announced that shaking had stopped, then asked for check-ins. We even posted a bulletin locally on APRS for any stations monitoring to come up on the repeater to participate.

We took this drill as an opportunity for folks to stop and think about where they were, what was in their local vicinity, and how that could be helpful in an earthquake or other disaster scenario. We also wanted participants to see that we were using the 30/90 repeater as a “calling” frequency, and then sent them off to a working frequency to send their reports. Finally, we wanted to see how we could do with use of our underutilized 220 MHz band.

When stations checked in, we asked them if they had 220 MHz capability. If they did, we asked them to shift to 223.5 to call KL7AA to send their reports. If they didn't have 220 MHz capability we directed them to the Anchorage designated simplex 2-meter frequency of 146.49 MHz. When they checked in on their respective working frequencies, we asked them to simply report their nearest cross street as well as the most prominent infrastructure in their local vicinity; we did NOT ask for damage reports.

A total of 23 stations checked in for the drill from all over the Anchorage area, north to the Mat-Su Valley, and south to the Kenai Peninsula. We had an additional four operators at the RSOC. Everyone did a great job, and, as usual, we had to deal with some adversity! As early check-ins were sent to 146.49 MHz, we found at the RSOC that we could hear them, but they couldn't hear us! This went on for about 10 minutes before we finally found that we had a bad triplexer attached to that radio. We pulled the triplexer off and connected the 6-meter to 1.2 GHz log periodic to the radio and the problem was solved. Participants included:



## Great Alaska ShakeOut 2018— Area Hams Participate (continued)

N9AIG – RSOC net control on the KL7ION repeater

KL5T – RSOC net control on 146.49 MHz

KL6RG – RSOC net control on 223.5 MHz

KL7TS – RSOC Operations Officer

KL7MM – check-in

KL7PHB – check-in

WL7UL – check-in

WL7AQ – check-in

KL4OF – check-in

KL7MO – check-in

KL3JH – check-in

KL7WY – check-in

KD2ERV/M – check-in

KL1JJ – check-in

KL4PL – check-in

KL7JFU – check-in

KL4RQ – check-in

KL7AIR – check-in

KL7XJ – check-in

KL4JW – check-in

KL4JB – check-in

N7DUD – check-in

KL7KO – check-in

KL2AZ – check-in

Thanks to everyone who took a few minutes out of their day to play radio, and special thanks to the RSOC folks who agreed to come out on less than 24 hours' notice to help with this drill.

I would also be remiss if I were not to ask again for all hams in the Anchorage area who would like to participate in ARES activities (such as this drill), to please officially [“register” by clicking on this link](#). This will help me keep you up-to-date on current ARES happenings.

Lastly, a thank you to PARKA for allowing us to continue to use the KL7ION repeater for ARES purposes.

73,

Kent Petty, KL5T

DEC, Anchorage

## Diane Melvina Block (1935 - 2018)

The Anchorage Amateur Radio Club sadly reports the passing of Diane Block on September 18, 2018. Diane Block is the wife of Richard Block KL7RLB who is a member of the AARC and a long time benefactor to us. The Richard L and Diane Block Foundation granted the AARC with funds to refurbish the exterior of the RSOC.

The Celebration of the Life of Diane was held on Saturday, Oct. 13, 2018 at Central Lutheran Church.

The obituary can be found here: <http://www.legacy.com/obituaries/adn/obituary.aspx?n=diane-melvina-block&pid=190328409>

# Hot Transmitter on 147.93 MHz Found and Shut Down

By [KENT PETTY](#)

On the afternoon of October 10, a transmitter keyed up on 147.93 MHz. This happens to be the input frequency for club's Grubstake VHF repeater (147.33/93). As a result, the repeater keyed up and eventually timed out. The offending transmitter never did time out over the course of three days. Unfortunately, this "hot transmitter" rendered the repeater unusable for service, and even resulted in the Thursday night ARES net being moved to the 30/90 repeater.



On October 11, we mustered an effort to find the source of the rogue transmission. I went to the RSOC and pulled a null bearing of 080 degrees on the log periodic. Shortly thereafter, Craig, KL4E, got busy with his Arrow antenna and Arrow attenuator. Between the two of us, we determined that the source was located somewhere in the vicinity of the Providence Hospital/UAA Campus area. Unfortunately, we both had to pack it in as we had other business to attend to.

Today, October 12, the transmitter was still going strong, so I got busy again. This time, I pulled out the 3-element tape measure beam antenna and Arrow attenuator (both loaned from John, KL7CY) and headed for the UMED District. Within a fairly short period of time, I found that the signal appeared to be coming from near the Southeast corner of the Alaska Native Medical Center campus. I continued to move and take bearings, and determined the signal was actually emanating from the south of Tudor Road. Also noted was that the signal was getting much stronger as I moved to the southeast as I needed to crank in more attenuation to get good bearings.

At this point, it was pretty clear that the source was either at the State of Alaska Crime Lab on the north side of Martin Luther King (MLK) Drive, or at the State of Alaska microwave tower site to the south of MLK drive. A quick check from the driveway access to the microwave site confirmed the signal was still to the southeast, so down the driveway I went.

There is a 100' freestanding tower at the site just west of the microwave tower. The signal was huge right there, and there was no ability to attenuate it, even by completely removing the antenna and shielding the radio with my body. It was clear that I was at ground zero.



I contacted Greg Eubank, KL7EB as this site is one that he deals with for the State of Alaska. When Greg arrived and accessed the "shack" at the base of the tower, we found that the desk microphone attached to the Motorola transceiver had a loop of coaxial cable resting atop of it just enough to cause it to key the transmitter. The culprit was found and the problem was solved.

Photos by Kent, KL5T (top photo is the search team) (to the left is the offending coax)

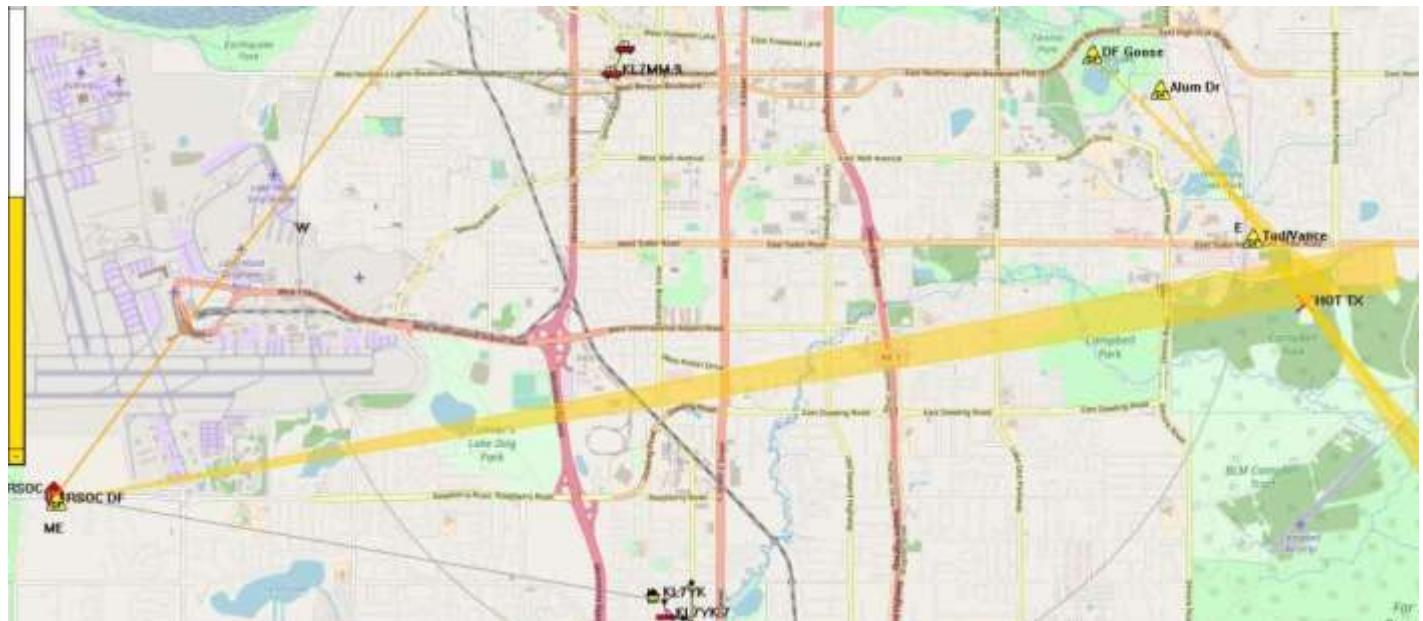
## Hot Transmitter on 147.93 MHz Found and Shut Down (continued)

We used the APRSIS32 program to help "map" the bearings and actually broadcast those bearings over APRS. Anyone running APRSIS32, or similar APRS mapping application would have been able to see those "lines of bearings" or "LOBs".

It so happens that we have indeed been looking at the possibility of acquiring both fixed and mobile DF units for the RSOC and our MTV or pickup. This "hot transmitter" incident highlighted a need for this, and if we had these active we probably would have tracked the offending RF emanator on day 1 in short order!



Photo by Kent, KL5T (coax removed)



DF "picture" from APRSIS32. Note LOB intersections on east side of image. Four bearings intersect to give a good "fix" on the transmitter.

If you'd like to get involved and work to help with establishing a good DF capability on VHF and UHF, please drop us a line at [info@kl7aa.net](mailto:info@kl7aa.net), at a Working Wednesday or Open Saturday, at a club meeting, or contact us by filling out the form on-line at <https://kl7aa.org/hot-transmitter-on-147-93-mhz-found-and-shut-down/>

Thanks to all involved for helping to resolve this issue and remember to secure your equipment when not in use!

73, Kent, KL5T

# How Field Day became a reality

By Dave, N9AIG

I can only summarize this article as it is copyrighted by the author. This summary is not going to do the article justice, but suffice it to say, what set out as a routine field day turned into a real event for The Foothills Amateur Radio Society.. The Foothills Amateur Radio Society ([www.fars.ca](http://www.fars.ca)) located in Okotoks, Alberta assisted with communications when all other communication options ceased working during flooding event from June 20 to 22, 2013.

Please go to the following link to read the entire story:

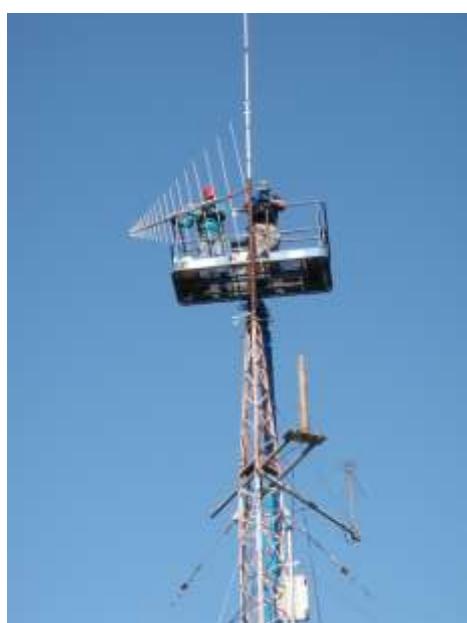
<http://vincedeon.com/amateur-radio/how-field-day-became-a-reality-the-story-of-the-high-river-flood-of-2013/>

Thank go to Kevin, KL2NV who drew my attention to this story that was written up in **The Canadian Amateur**, September/October 2013 edition.

## A Really Big Day, Up and Away!

By [KENT PETTY](#), KL5T

This antenna raising was reported on last month, but George, KL1JJ came forward with some additional pictures that really need to be shared with the membership. Snow has fallen so the installation and antenna adjustments were made just in time.



## A Really Big Day, Up and Away! (continued)



# VEC Report

By Kent, KL5T

| VEC Session Summary, October 2018 |            |          |                     |             |                  |             |             |          |          |          |
|-----------------------------------|------------|----------|---------------------|-------------|------------------|-------------|-------------|----------|----------|----------|
| Location                          | # Sessions | # Tested | Licensed / Upgraded | New License | Upgraded License | Passed Elem | Failed Elem | Tech     | Gen      | Extra    |
| Anchorage                         | 1          | 2        | 2                   | 2           | 0                | 4           | 1           | 1        | 0        | 1        |
| Homer                             | 1          | 3        | 2                   | 2           | 0                | 2           | 1           | 2        | 0        | 0        |
| Fairbanks                         | 1          | 3        | 3                   | 3           | 0                | 3           | 3           | 3        | 0        | 0        |
| Sitka                             | 1          | 0        | 0                   | 0           | 0                | 0           | 0           | 0        | 0        | 0        |
| <b>Totals</b>                     | <b>4</b>   | <b>8</b> | <b>7</b>            | <b>7</b>    | <b>0</b>         | <b>9</b>    | <b>5</b>    | <b>6</b> | <b>0</b> | <b>1</b> |

## 12 Month Summary

|                      |     |
|----------------------|-----|
| Tot Sessions 12 mths | 58  |
| # People Tested      | 176 |
| # Exams Taken        | 218 |
| # Exams Passed       | 141 |
| # Exams Failed       | 77  |
| # New Hams           | 71  |
| # Upgrades           | 58  |

Please remember to check the “store” on our website to purchase your seat at a testing session. VEs are prohibited from accepting cash, checks, or other forms of payment at test sessions. Examinees need to be sure to show up with their “receipt” in hand, or otherwise present a copy of the receipt in electronic form to be permitted to test. To summarize, all purchases for testing must be made online at our website.

Brandin Hess, AL6I, advises that the testing session scheduled for early November in Kodiak has been delayed due to his travel plan changes. The next session in Kodiak will be sometime in February, 2019 and will be posted on the KL7AA website when a final date and time has been determined.

Our VE application process and testing have gone online. There will be no more paper applications. Folks who want to join our VE team simply need to go to our website and apply. Once the application is reviewed and the applicant determined to be eligible to become a VE, the applicant is sent a link to complete the test online. Check out the AARC VEC webpage for more info.

Anchorage ARC VEC Website: <https://kl7aa.org/vec/>

Scheduled testing sessions are held in Anchorage, Fairbanks, Kodiak, and Sitka:

## VEC Report (continued)

### Anchorage, Alaska

AARC Radio Science and Operations Center (RSOC)  
6721 Raspberry Road, Anchorage, AK  
When: Second Saturday of each month at 2:00 PM  
Contact: Kathleen O'Keefe, KL7KO, 907.351.3538, [koalaska@gmail.com](mailto:koalaska@gmail.com)

### Fairbanks, Alaska

Far North CB Radio Plus Building  
3451 College Road, Fairbanks, AK  
When: First Saturday of each month at 1:00 PM  
Contact: Roger Garrett (KL4EC) (907) 361-5109 / (907) 385-0203, [arcticrph@hotmail.com](mailto:arcticrph@hotmail.com)

### Kodiak, Alaska

Kodiak Assembly of God  
3416 Woodland Drive, Kodiak, AK  
When: Check with contact / check website  
Contact: Brandin Hess, AL6I, 207.2496.8802, [icebox86@arcticmail.com](mailto:icebox86@arcticmail.com)

### Sitka, Alaska

Sitka Fire Department  
209 Lake Street, Sitka, AK  
When: First Saturday of each month at 12:00 PM  
Contact: Darryl Ault, AL7BW, 907.738.4539, [darrylault@yahoo.com](mailto:darrylault@yahoo.com)

Testing teams are also available in Bethel, Cordova, Homer, Juneau, Kenia/Soldotna, Kodiak, and Valdez and are scheduled on an as-needed basis. Check our website for info and updates.

73,

Kent Petty, KL5T  
Chairman, Anchorage ARC VEC

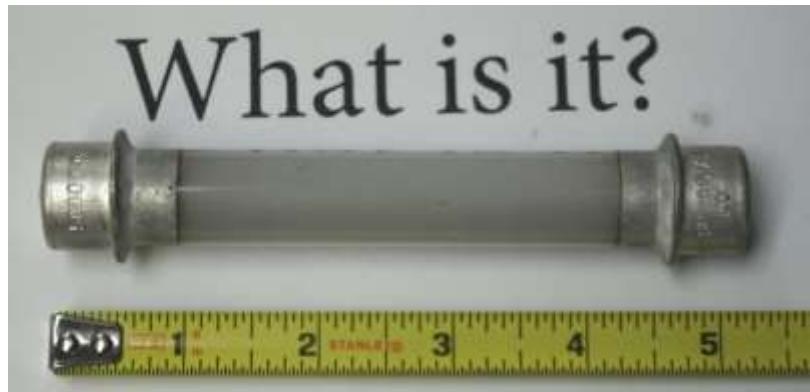
# What is it?

By Walter, KL7WY

At first guess, some people have said a fuse, or a lamp of some sort. If you can't read what is stamped on the ends, it's made by SPRAGUE, and it says 50,000 ohms which usually eliminates this as a fuse.

I do have a pretty good idea of what this is.

Walter - KL7WY



## Flameproof Resistors

By Walter, KL7WY

Among the stuff that the FCC left in our building was this pack of four resistors that was packaged to hang on a rack in a store. Everything on the package makes sense until you get to the bottom.

"Flameproof"? I've been messing around with electronics for, oh my gosh, over 50 years, and I've never seen flameproof as an option or specification.

Does this mean that if you are building a controller for say a furnace or a kiln you can use these resistors where they will be exposed to a direct flame? Have you ever heard of an application for electronics where except for something like a pilot light sensor, the components were exposed to a flame?

Or is this just a confirmation that when you are doing a "smoke test" that it will remain a smoke test and not burst into flames should the resistor need to de-grade quickly.

Anybody know what flameproof means for a resistor?

Walter - KL7WY



# Let's Man the RSOC!

By [KENT PETTY](#)

A long-term goal for our awesome Radio Science and Operations Center is to man operations floor 24 hours per day. Whoa! That's a tall order!

To get this rolling, we can start in a limited way by having someone on-duty each evening to participate in the evening state-wide and local nets. If you are a general or extra class operator, would you be willing to help? This, of course, would include checking into the Sniper's Net, the Bush Net, and the Motley Net on HF, maybe linking with AL7N on CW for the Alaska CW net, and then participating in the various VHF/UHF nets that take place throughout the week.



If you have an interest in taking a shift, are willing to get trained up on the current equipment capabilities, and just want to have some fun, please let us know.

Drop me a line at [vicepresident@kl7aa.net](mailto:vicepresident@kl7aa.net) so we can talk more about how you can help.

Thanks and 73,

Kent, KL5T

## Volunteers – Please Log Your Time!

By Kent Petty, KL5T

Volunteerism is a huge part of our club's culture. It's probably the most important thing we do, and it really should not go unnoticed. One of the best ways to ensure that volunteer efforts don't go unrecognized or unrecorded is to record donated service at the time it is performed. This ensures that volunteer efforts are captured for financial reports, lessens the likelihood of the volunteer effort falling through the cracks and going unnoticed, helps identify and objectively rank volunteer service deserving of special recognition, and can actually help greatly when we apply for grants.

We should be tracking our volunteer time for a long list of club-related activities. Some include club board activities, emergency communications training and support, general club station support, public service communications support, VEC related activities, and more.

Go to: <https://kl7aa.org/> and click on the Volunteers-Please log your Time!

# Have you signed up?

(Fred Meyer can be done via Internet)

Here are two ways you can help fund our Anchorage Amateur Radio Club. Both are really easy on your part. Please consider doing both options, if you haven't signed up, please do.



## **Fred Meyer will give us money!**

All you have to do is shop there and sign up AARC as your non-profit beneficiary. Once you sign up, a portion of every purchase you make is donated to AARC. There is no increase to you for your purchase by declaring AARC as your beneficiary. Currently there are three individuals signed up for this worthy cause. Let's see if we can make it 100%.

You still earn your Rewards points, Fuel Points, and Rebates just as you do today.

The AARC's Fred Meyer non-profit number is 94846.

If you don't have a Fred Meyer Reward Card, they are available at their service desk.

Tell your family, friends and neighbors about this opportunity too.

## **Amazon Smile will give us money!**

If you do shopping on-line at Amazon, you can designate AARC as your charitable organization. Amazon will donate 0.5% of your purchase to AARC. Log-on to:

<https://smile.amazon.com/ch/23-7225693>

For more information.

# AARC is Accepting Credit Cards!

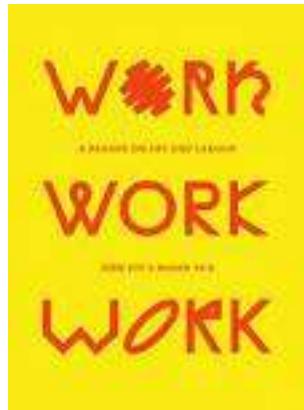
AARC can accept your credit card for payment (via Square Reader) of dues and donations. See Kent KL5T at the next club meeting, club working Wednesdays or board meeting. Note that accepting credit card payment via our web-site is still in progress.

Now may be the time to renew your membership; don't forget!

Thanks Kent KL5T, for setting this up



# Time to sign-up to help with these projects!



## Saturday Work Sessions 10AM to 3PM

(don't forget working Wednesdays too: 6:30PM to 9:00PM)

We need everyone's efforts for the following projects that have been identified. Contact the individual indicated to coordinate the work on these projects.

| Project or Activity Need                                                   | Description                                                                                                                                                                                                     | Contact       |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| ARES - Anchorage Department of Corrections Emergency Coordinator           | We need a lead person to coordinate support for the Anchorage area State of Alaska Department of Corrections emergency communications needs. An MOU is in place. We need a point person. Ready to get involved? | KL5T          |
| ARES - Membership on Critical Resources Teams                              | Become a member of a team supporting a critical communications resource or served agency. We do need your help.                                                                                                 | KL5T          |
| Assist with donated tower take-downs and removals                          | Are you willing to assist with tower dismantling? We always need help. Are you willing to be a tower or ground crew member?                                                                                     | KL5T          |
| <del>Assist with removal and disposal of "dead lead" (old batteries)</del> | <del>These need to be hauled away periodically. Can you be the dead lead leader?</del>                                                                                                                          | KL7TS         |
| Build Worktop for Operating Table for MTV                                  | The MTV uses a 2' x 4' portable table as a work top. It would be enlarged somewhat by building a 2' x 6' top that sits securely overtop. Do you have some woodworking skills?                                   | KL7MM or KL5T |
| Cable Crimp Tool God / Goddess                                             | We have a lot of crimp tools that need to be characterized, instructions provided, and training to be provided on their use. A worthwhile project. Are you up for it?                                           | KL7TS or KL5T |
| Club Antenna Analysis, Characterization, and Repair                        | Evaluate antennas on the shelves for resonant frequency (ies), structural integrity, label, and store. Use the club's AIM antenna analyzer to characterize.                                                     | KL7TS or KL5T |
| Club Member Antenna Sweep and Analysis                                     | Visit club member's home stations to sweep antenna systems with club's AIM antenna analyzer. Also check mobile systems.                                                                                         | KL7TS or KL5T |
| Club Work Shop Organization and Storage                                    | We need to get the work shop area organized so it is more functional and looks like a professional shop. Are you a great organizer?                                                                             | KL7TS         |
| Document Scanning                                                          | Lots of club documents need to be scanned. Any help would be appreciated                                                                                                                                        | AL2R or KL7GD |

Continued on the next page

| Project or Activity Need                                | Description                                                                                                                                                                                                              | Contact                           |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Equipment Inventory and Management                      | Assist Vice President with equipment inventory, labeling, and database management.                                                                                                                                       | KL5T                              |
| Office Organization and Storage                         | The club's office needs to be organized. Shouldn't be too difficult a job, just needs to be tackled.                                                                                                                     | KL7TS                             |
| Garage Organization and Storage                         | Need some real help here. If we can get this space organized it will make a real difference being able to get work done.                                                                                                 | KL7TS                             |
| Hand and Power Tool Organization                        | Organize all hand and power tools at the club station. Many tools need to be labeled with ID numbers and added to the inventory.                                                                                         | KL7TS                             |
| LCD Monitor Repair                                      | An LCD monitor needs repair. It needs a couple capacitors replaced. An instructional video for the repair is available. This is a good novice project.                                                                   | KL5T                              |
| Manager the Club's Facebook Page                        | Yep, we are on Social Media and really need someone to manage our Facebook page. Can you help?                                                                                                                           | AL4S,<br>KL5T,<br>or<br>KL7M<br>M |
| MESH Network - File Server                              | Develop a file server for the MESH network using a Raspberry Pi. Systems are in place as examples.                                                                                                                       | KL5T                              |
| MESH Network - PBX                                      | Assist with MESH system Raspberry Pi telephone server (PBX).                                                                                                                                                             | KL5T                              |
| Mezzanine Organization and Storage                      | <del>This is our primary long storage area and really needs to be cleaned up. Can you help?</del>                                                                                                                        | KL7TS<br>or KL5T                  |
| MTV Equipment Outfitting                                | We need to get our MTV Properly outfitted so it can deploy and operate on a moment's notice. Can you work with our Heavy Rolling Stock Manager to assist?                                                                | KL7M<br>M or<br>KL5T              |
| Project or Activity Need                                | Description                                                                                                                                                                                                              | Contact                           |
| Portable Deployable Kit Manager                         | We need someone to manager our deployable kits. These include simple portable voice stations, packet stations, crossband repeater units, and MESH units in the future. This is a cool job!                               | KL5T                              |
| Reprogram Portable 440 MHz Portable Repeater Morse IDer | We need to reprogram the Morse IDer in our portable 440 repeater. We've got the keypad to do the job, but need someone to champion the effort.                                                                           | KL7TS<br>or KL5T                  |
| RF Cable Labeling                                       | Characterize and label all active and available antenna feedlines using club's cable labeler.                                                                                                                            | KL7TS                             |
| RFI Team Lead                                           | The club has some excellent RFI detection equipment. We need to get it into service on a regular basis. How would you like to lead the effort to track down the countless sources of harmful interference in Anchorage?! | KL7TS<br>or KL5T                  |
| WX3in1 Plus 2.0 APRS Digipeater / I-Gate                | Configure hardware, set system parameters, and install the club's WX3in1 Plus APRS unit at AARC hillside site located at KL7QN's residence.                                                                              | KL5T                              |

Join us on “working Wednesdays” or **Saturday Work Sessions (10AM to 3PM)** for an opportunity to have “eye-ball” QSOs and get a project completed!

ANCHORAGE AMATEUR RADIO CLUB  
BOARD MEETING  
September 18, 2018  
Radio Science Operation Center (RSOC)  
6721 Raspberry Road  
Anchorage, AK

**APPROVED**

The meeting was called to order at 7:01 PM by President Lara Baker AL2R

A quorum was established

**BOARD MEMBERS PRESENT:**

Lara Baker AL2R, Alice Baker KL2GD, T.J. Sheffield KL7TS, Dave Webb N9AIG, Kent Petty KL5T, Matt Ostrander KL4QH

**BOARD MEMBERS PRESENT VIA TELECONFERENCE:**

Rich Gillin AL4S, Jim Wiley KL7CC, Keith Clark KL7MM

**NON-VOTING MEMBERS/GUESTS PRESENT**

Allen Abbott KB1QCE, Amos Kirk KT7WW (visitor from Boise)

**EXCUSED BOARD MEMBERS**

Richard Tweet KL2AZ, Lil Marvin KL7YF, Jill Heimke WL7BTT

**UNEXCUSED BOARD MEMBERS**

None

**REQUEST FOR AGENDA ITEMS/CHANGE IN ORDER**

Fire Mitigation Project - September 29<sup>th</sup> and 30<sup>th</sup>

Open House on September 22<sup>nd</sup> food, signage, volunteers

**TIME CRITICAL ITEM(S)**

None

**VISITOR FORUM**

**DISCUSSION ON FORMING A NEW ARRL SECTION**

There are changing needs for Anchorage Alaska being an urban environment and on the needs of Alaska for ARRL. There is a growing resentment because Fairbanks is not representing the balance of Alaska. It suggests that we should be looking at a separate ARRL section for Anchorage. This was presented at the last membership meeting, so it should be no surprise to them. Not everyone knows all the details as to why we should take this route. There is a difference in the needs, wants and desires of what Anchorage wants. From an ARES perspective there is a move afoot for the section to move away from the ARRL; we are not on board with moving away from ARRL. There are changes being rolled out by ARES that are needed for about 50 years. Some of the data being collected is perceived as invasive and could be hacked and abused by nefarious individuals. ARES is rolling out new requirements of the Incident Command System (ICS) and other training for individuals. Section managers are rolling out what's required of their members. Section managers will determine who needs what and when. We should take this information and move to make a different ARRL section. Our emergency communication needs are different in Anchorage versus a remote location. **The board has a consensus to move forward looking into what it would take to form a separate ARRL section.** Kent KL5T and TJ KL7TS have been tasked with looking into

additional information as to what it would take to form a new ARRL section. The ARES Manager will have an opportunity to review the changes that the ARRL is suggesting. We need to get ourselves into a position where we let ARRL know we are on board with them.

The ARRL has a process to form an independent section. Lara will have a conversation with the section head. We will not commit the club at this time until the board votes on this and the membership votes on it too.

## **REPORTS**

### **SECRETARY REPORT**

Dave Webb, N9AIG will be recording the minutes tonight as a substitute for Richard Tweet KL2AZ. The minutes for the August 21, 2018 Board meeting and the September 6, 2018 Membership meeting were presented. Motion made by Matt Ostrander KL4QH to approve and seconded by Alice Baker KL2GD to accept the Board meeting minutes. Matt Ostrander KL4QH made a motion to approve, seconded by Alice Baker KL2GD to accept the General Membership minutes. The motions passed unanimously. The tech talk did take closer to an hour instead of 30 minutes. The tech talk information was regarding how to flash a mesh node (3).

(Please be sure the line numbers are included in future notes.)

### **TREASURER'S REPORT**

Jill Heimke WL7BTT is not here but everything is moving along.

### **FINANCE COMMITTEE**

Keith Clark KL7MM reported that the meeting was routine. However, there was a warrant exercised in the restitution case and she was arrested. The bail was set at \$3000. The matter will be adjudicated on October 25<sup>th</sup> at 2:30. We also talked about asset cleanup. We talked about the budget process. We had a brief discussion regarding the airport insurance requirements; there would be some savings if we pay in advance. Keith indicated he would be taking over the leadership of the building committee. The building committee will look at airport insurance requirements. Finance Committee will work on the 2019 budget at the next meeting with presentation to the membership for approval at the November Membership meeting. The finance committee recommends we drop the collision insurance on vehicles but maintain liability and comprehensive insurance. The liability and comprehensive will be with a \$1000 deductible. T.J. KL7TS made the motion to accept, Alice KL2GD seconded it; passed unanimously. Kent will contact All-state.

### **PROJECTS COMMITTEE**

T.J. Sheffield KL7TS reported there are no current funded projects. The senior center is a carryover. We should mention the HAARP project. University of Alaska Fairbanks currently has the reins to move forward with an experiment; Dr. Chris Fallen who now has an amateur radio call is very interested in a backscatter experiment at 1.2 gig. They will be here the 30<sup>th</sup> of September to tour the RSOC and "moon bounce" Mike Mellon's station with a 10m dish. Dr. Chris Fallen KL3WX did say if you need equipment he will buy it and donate it to the club. If you need equipment and that's a problem they can help.

There are other projects non-funded such as putting the SteppIR up in the air plus a log periodic and a vertical on the old FCC tower. This was funded by membership donations to the amount of \$385. There were also new building gutters installed on the RSOC. The commissioning of the battery lab is another project. Even non-funded projects can be given a project number. The project has a beginning and an end, a schedule and a budget. A previous non-reported project was the painting of the RSOC.

## **GRANT COMMITTEE**

Lara Baker AL2R reported that we received \$5,000 towards the fee to Ken Miller. We are looking at the Donnellan grant moving forward. The Donlin grant is to fund tires for the F350 and upgrade the exterior lighting to LED. The amount is \$3,700.

## **FUNDRAISING COMMITTEE**

We had a fund-raising meeting last night with assignments made for homework. Those that received home-work assignments know who they are. Dennis Stevens WL7AQ is currently working tonight and not available. We are using Dropbox as a tool for the team as recommended by Ken Miller. We will work with Drop-box with Ken Miller throughout Ken Miller's tenure and then move everything over to Google Drive at the end. Not everyone is fond of Dropbox but it is a tool that Ken Miller is most familiar with. Kudos go to Matt Notte for his donations including a DMR repeater. Kent has talked to Matt Notte and thanked him for his contributions to the club. Ken Miller will give us guidance on how to recognize those individuals that are do-nating to the club. This donation should come up in the next general meeting regarding the DMR repeater.

## **GAMING COMMITTEE**

Lara Baker AL2R noted we're talking with people about the possibility of bingo and pull tabs and Lara did send in the form for fundraising to the State of Alaska.

## **BUILDING COMMITTEE**

Keith Clark KL7MM will be starting up this committee shortly.

## **MEMBERSHIP COMMITTEE**

Rich Gillin AL4S reported an email coming to everyone for the record. This email is for the record and all board members will receive this. Three \$20 transactions took place this last period. Rich processed five or six new license emails for membership. There might have been four more processed prior to the five or six. In the future, blue commerce will handle this automatically. Right now, this is a laborious process to keep up sifting through emails and this is not something that's been tracked previously.

## **EDUCATION COMMITTEE**

Kent Petty KL5T reported that he is the chair of this committee but has not held a meeting in a few weeks. We have successfully become a vendor for the homeschool network. We can hold classes and we can bill. We are now ready to proceed with holding these classes.

## **ELECTION COMMITTEE**

The election is done the slate that was proposed has been elected and accepted by the membership.

## **EQUIPMENT REPORT**

We received a new donation from Lloyd Fuller, KL7JFN. It's a 40 foot crank up U.S. tower; it does not in-clude the base. Lloyd Fuller, KL7JFN is life member number 11.

## **VE REPORT**

Kent passed out a copy of the normal monthly report. Two kits were sent to Caribou, Maine and when we send these outside of Alaska they cost about twice as much as those mailed within Alaska. Brandon Hess does duplicate the tests that we send him so that we don't have to continue to incur the high postage rates. We will also do the same for Kodiak. We receive about \$15 back from those tests taken in Maine based on a \$25 fee charged in Maine. VE applications are now done online. The VE test can also be

taken online. Kent is trying to get a grant to offset the costs of the VE program. Kent and Lara are looking at having online amateur radio testing and they're currently working through security issues to do so. Once the security issues are worked through FCC approval will be needed. The VE program costs about \$3,000 per year to run. This dollar figure includes indirects. Kent passed on an email regarding Roland Anders K3RA. Roland Anders K3RA passed the online VE exam. He was disaccredited by the Laurel VEC group that he belonged to. Kent KL5T investigated his background and determined he was inappropriately discredited and should be reinstated as a VE. His four-page resume indicates that he is well-qualified. We are making a motion to support our VE chairman in accrediting Roland as a Question Pool Committee (QPC) member in our program and a VE in the AARC program. Matt KL4QH made the motion and Jim KL7CC seconded to approve; the motion passed unanimously.

## **TRUSTEE REPORT**

TJ requested we get the application in place to retain callsign KL7G. We must move prior to November 4th. Keith KL7MM said he needed to arrange a board meeting with directors and fill out the paperwork which he has in possession.

## **ARES**

Kent Petty KL5T reported on the upcoming September 8<sup>th</sup> *Finding Bullwinkle* statewide ARES exercise, operational status at the Tuttle Warehouse location, 5Ghz antenna upgrades, Alaska Native Medical Center (ANMC) VHF/UHF antenna issues, HF RMS capabilities at ANMC, ARES online registration, ARES Connect and IS-100 online course availability.

## **OLD BUSINESS**

### **AARC Election –**

Discussed during Election Committee report

### **AARC Program**

The October Membership meeting program will be regarding projects that were performed by membership donations plus Amazon Web services and Google donations and a discussion regarding DMR as the tech talk.

## **NEW BUSINESS**

### **Open House**

Discussion was held around holding an open house on September 22 in lieu of a ham fest. T.J. and Kent will be there on that Saturday to hold tours. The president of the Arctic Amateur Radio Club in Fairbanks will be in attendance.

### **Fire Mitigation Operation**

The MTV will be used, and net control can use their own personal vehicle.

### **InfraGard**

Lara will be looking into a closer relationship with the FBI to use the RSOC as a backup site. 26 people attended a meeting at the RSOC. We need to have a way to present in our current meeting room without moving to the classroom.

### **AARC Board Director Vacancies**

Discussion was held on the currently vacant Director position and the upcoming Officer (Treasurer) position vacancies and efforts to find volunteers to fill the positions.

### **AARC Board Member License Requirement - deferred until next time**

## **ADJOURNMENT**

The meeting adjourned at 8:45 PM.

Respectfully submitted as recorded on 09/18/2018 by Dave Webb, N9AIG, News Letter Editor and Board Member

ANCHORAGE AMATEUR RADIO CLUB

MEMBERSHIP MEETING

October 4, 2018

Radio Science Operation Center (RSOC)

6721 Raspberry Road

Anchorage, AK

**APPROVED**

**Call to Order**

The meeting was called to order at 7:01 PM by President Lara Baker AL2R. A quorum was established (24). Members and guests introduced themselves.

**Business**

A brief explanation was made regarding a previous club treasurer that went to jail due to embezzlement. This same person recently made bail. Originally, about hundred and ten thousand dollars plus other misappropriations were made by this treasurer. So far, we've received \$55,000 back in restitution.

A summary of the wildland fire mitigation Project was made by Dave Webb N9AIG. The Anchorage amateur radio club partnered with Team Rubicon on September 29<sup>th</sup> and 30<sup>th</sup>. Our radio club provided communications for logistics, supplies, and broadcasts deemed necessary by the incident commander. Team Rubicon is an organization that is also a 501c(3) that helps restore areas after natural disasters. This project we were involved with entailed the thinning of trees to provide a firebreak for homes in the Powder View subdivision on the North side of Eagle River. Team Rubicon had about 30 individuals and the Anchorage Amateur Radio Club had 7.

Tonight's tech talk will be regarding projects that have occurred lately and a very sincere thank you to our membership who helped make these projects happen. Originally, our tech talk was going to be around DMR. However, that person is still trapped in Barrow because of the weather. T.J. has stepped up to do a Tech talk about the latest important projects.

A question was raised about communications with the international space station. Apparently, it will be passing over in the next few days. The suggestion made was to get in touch with Mike KL6M who has an array that can do that communication. Currently the Anchorage amateur radio club is not set up to do so.

**DOOR PRIZES**

4 Door prizes were awarded

**TECH TALK**

T.J.'s presentation included the HAARP project with Dr. Chris Fallen, the RSOC building gutter replacement project, the commissioning of our battery lab, the FCC tower antenna installation, the Anchorage Senior Center, and the RSOC antenna farm plan. It was also mentioned that were looking for volunteers for anything that interests you. The AARC would like to hear about it.

The meeting adjourned at 8:08pm after the tech talk.

Respectfully submitted as recorded on 10/10/18 by: Dave Webb N9AIG, Newsletter Editor, board member



# Monthly Events

**1st Thursday each month: AARC general meeting - 7:00 PM** in the Radio Science and Operations Center (RSOC) Building at 6721 Raspberry Road, Anchorage. Talk in will be on 147.33+ repeater.

**1st Thursday each month: Moosehorn Amateur Radio Club General meeting - 7:00 PM** Location is at Borough Emergency Response Center on Wilson Way in Soldotna (behind Soldotna FD. Call for directions on 146.88 repeater (no tone). Moosehorn ARC also holds a weekly luncheon every Thursday, locations and times change — contact George Van Lone, KL7AN: [donnav@acsalaska.net](mailto:donnav@acsalaska.net)

**2nd Saturday each month: PARKA (Polar Amateur Radio Klub of Alaska) Meeting at 11:00 AM.** Polar Amateur Radio Klub of Alaska. All amateurs welcome. Denny's on Denali Street in Anchorage. Some business is discussed. Originally established as an all woman organization, membership now includes spouses or significant others. Talk in on 147.30+.

**2nd Saturday each month (except for holidays): VE License Exams at 2:00 PM.** at RSOC 6721 Raspberry Road. Be sure to bring photo ID, copy of license (if any) and any certificates of completion. Contact:

Kathleen O'Keefe, KL7KO, 907.243.4675, [koalaska@gmail.com](mailto:koalaska@gmail.com)

**3rd Tuesday each month: AARC Board Meeting at 7:00 PM at the Radio Science and Operations (RSOC) building. All hams are invited and encouraged to attend.**

**1st Tuesday of each month: EARS general meeting at 6:00 PM.** EARS meetings are held at the EARS shack location. Contact info - Pat Patterson WL7PP for information. EARS: 552-2664 (recording); Talk in on 146.67-. Email: [club@KL7air.us](mailto:club@KL7air.us) or [kl7yk@arrl.net](mailto:kl7yk@arrl.net)

**4th Saturday of each month: Valley VE Testing at 7:00 PM.** Sessions will be held at Fire Station 61, at 7 pm on the fourth Saturday of each month unless it is a major holiday weekend. Contact Ken Hudson, KL2HF, [Kenputer@hotmail.com](mailto:Kenputer@hotmail.com) or 907-354-0206.

**The last Friday each month: MARA meeting at 7:00 PM, Wasilla Fire Station 61.** Talk-in help for the meeting can be acquired on the 147.33 repeater. Further details can be found by contacting Don Bush, KL7JFT, [dbush@gci.net](mailto:dbush@gci.net).

**Every Monday at 11:00 AM: Meeting of interested Amateur Radio Operators — and lunch at Denny's on DeBarr — across from Costco.** Many code and HF operators attend this function. Come talk radio. For information, contact Kathy O'Keefe, KL7KO, [kokalaska@gmail.com](mailto:kokalaska@gmail.com)

**Every Saturday at 7:00 AM: Meeting of a group of Amateur Radio Operators at Village Inn on Spenard Road for breakfast.** Topics? Radio, photography, and upcoming events For information, contact Kathy O'Keefe, KL7KO, [kokalaska@gmail.com](mailto:kokalaska@gmail.com).

## Active Nets in Alaska

### **VHF NETS**

The local VHF Nets have a Packet side as well. Look for 2 meter Packet at 145.01 (Eagle) and 147.96 (Valley). The Eagle and Valley nodes provide a "talk" or chat function. Also, if you are unable to connect directly to one of the nodes, try digipeating through EARS on either frequency. Do this by typing **c eagle v ears** or **c valley v ears** on the appropriate frequency. Check [www.KL7AIR.us](http://www.KL7AIR.us) for more information on the digipeaters.

**ARES Net:** 147.33 w/ 103.5Hz tone (Backup 147.30 w/ 141.3Hz tone) —Thursdays at 8:00PM

**No Name Net:** 146.43 simplex—Sundays 8:00PM

**South Central Simplex Net:** 146.52 FM, 144.2 USB, 446.0 FM, 432.2 USB, 223.5 FM, 927.5FM, 1294.5 FM, 52.525 FM, 50.125 USB, 29.6 FDM, 28.4 USB, 145.01 Packet (Eagle Node), 147.96 Packet (Valley Node) - Tuesdays 8:00PM

**Alaska VHF Up Net:** 144.200 USB—Saturdays 9:00 AM

**Alaska Morning Net:** The Alaska Morning Net is held Monday through Saturday from 9:00 AM—11:00 AM on the IRLP Reflector 9109. This net can be reached via several hosting nodes in the area. Please visit [www.status.irlp.net/index.php?PSTART=2&mode=3](http://www.status.irlp.net/index.php?PSTART=2&mode=3) to find the closest node. Also the net can be reached via EchoLink on 9191 (WL7LP-R) and Allstar nodes 27133 and 29332. The Alaska Statewide ARES net is held on Thursday evenings at 8:30pm (following the Anchorage ARES net) at the same locations and also the 8:30pm Sunday evening Alaska Statewide Radio Link.

### **HF Nets**

**Alaska Snipers Net:** 3.920 MHz 6:00pm daily

**Alaska Bush Net:** 7.093 MHz 8:00pm daily

**Alaska Motley Net:** 3.933 MHz 9:00pm daily

**ACWN (Alaska CW Net):** 3540 kHz, 7042 kHz, 14050 kHz Non-directed, CW calling and traffic watch for relaying NTS of other written traffic. AL7N monitors continuously receivers always on WL2K. (RMS connection available— [AL7N@winlink.org](mailto:AL7N@winlink.org))

**Alaska Pacific Net:** 14.292 MHz 8:30am M-F

**ERC HF Net:** 3.880 MHz 8:30pm Sundays



| DATA YOU CAN USE |         |          |                         |                       |
|------------------|---------|----------|-------------------------|-----------------------|
| Frequency        | Tone    | Callsign | Features                | Area                  |
| 147.18-          | 88.5    | ADES     |                         | JBER                  |
| 146.88-          | no tone | AL7LE    | Phone patch             | Kenai/Soldotna        |
| 146.82-          | 103.5   | WL7CWE   | IRLP                    | Anchorage             |
| 146.76-          | 123.0   | KL3K     | IRLP                    | Seward                |
| 146.94-          | 103.5   | KL7AA    | Phone patch             | Anchorage to Wasilla  |
| 224.94-          | no tone | KL7AA    |                         | Anchorage             |
| 444.70+          | 103.5   | KL7AA    | Phone patch             | Anchorage             |
| 146.67-          | 103.5   | KL7AIR   | MARS station            | Anchorage & Highway N |
| 147.30+          | 141.3   | KL7ION   |                         | Very Wide Area        |
| 146.85-          | 103.5   | KL7JFU   | Cross Banded to 444.600 | Mat Valley            |
| 444.6+           | 103.5   | KL7JFU   | Cross Banded to 146.85  | Mat Valley            |
| 146.91-          | no tone | KL7JL    |                         | Homer                 |
| 147.15+          | 107.2   | NL7S     |                         | Wasilla               |
| 147.84-          | 103.5   | WL7CWE   |                         | Wasilla repeater      |
| 147.33+          | 103.5   | WL7CWF   | Cross linked to 443.900 | Very Wide Area        |
| 443.900+         | 103.5   | WL7CWF   | Cross linked to 147.33  | Very Wide Area        |

| South Central Area Simplex Frequencies |                                          |
|----------------------------------------|------------------------------------------|
| 146.52                                 | National Calling and Emergency Frequency |
| 147.57                                 | DX Spotting Frequency                    |
| 146.49                                 | Anchorage Area Simplex Chat              |
| 146.43                                 | Mat-Su Valley Simplex Chat               |
| 147.42                                 | Kenai Peninsula Simplex Chat             |

| WinLink Information |           |                          |
|---------------------|-----------|--------------------------|
| 144.9               | WL7CVG-10 | Anchorage Area RMS       |
| 145.19              | KL7JFT-10 | Palmer/Mat-Su RMS        |
| 147.96              | KL7EDK-10 | Fairbanks RMS            |
| 144.9               | WL7CVG-4  | South Central Digipeater |
| 144.98              | KL7AA-10  | Anchorage AARC RMS       |



Photo courtesy of Interfidelity

# November 2018

**Sun**      **Mon**      **Tue**      **Wed**      **Thu**      **Fri**      **Sat**

|           |                                                    |                                      |                                             |                                          |           |                                                 |
|-----------|----------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------|-----------|-------------------------------------------------|
|           |                                                    |                                      |                                             | <b>1</b> AARC Membership Mtg<br>ARES Net | <b>2</b>  | <b>3</b><br>AARC Working Saturday at RSOC 10-3  |
| <b>4</b>  | <b>5</b><br>7pm Fundraising Committee              | <b>6</b>                             | <b>7</b><br>6 PM AARC Working Wed. at RSOC  | <b>8</b><br>ARES Net                     | <b>9</b>  | <b>10</b><br>AARC Working Saturday at RSOC 10-3 |
| <b>11</b> | <b>12</b> 6PM-Finance<br>7pm Fundraising Committee | <b>13</b>                            | <b>14</b><br>6 PM AARC Working Wed. at RSOC | <b>15</b><br>ARES Net                    | <b>16</b> | <b>17</b><br>AARC Working Saturday at RSOC 10-3 |
| <b>18</b> | <b>19</b><br>7pm Fundraising Committee             | <b>20</b><br>7 PM AARC Board Meeting | <b>21</b><br>6 PM AARC Working Wed. at RSOC | <b>22</b><br>Thanksgiving<br>ARES Net    | <b>23</b> | <b>24</b><br>AARC Working Saturday at RSOC 10-3 |
| <b>25</b> | <b>26</b><br>7pm Fundraising Committee             | <b>27</b>                            | <b>28</b><br>6 PM AARC Working Wed. at RSOC | <b>29</b><br>ARES Net                    | <b>30</b> |                                                 |

## Swap 'n Shop

Please watch the AARC web-site for new information between newsletters:

<http://kl7aa.net/swap-n-shop>



I have two items for sale. Prices are firm

Icom706 MK2G Radio is in good shape. It does show signs of wear \$500.00

Ameritron 811H Amp. This amp maybe has 6 hours on it. There are some scratches on the top \$625.00

Not sure if I Have the manuals for both items. I will look.



Mathew Notte

Contact [note142@gmail.com](mailto:note142@gmail.com)

Phone Number 907-885-1185

## Swap 'n Shop (continued)



Kenwood TS-450S. Tested: 100 watts output. Fully adjustable down to zero watts for QRP and digital modes. This radio has the built in antenna tuner. Mike and power cord not included.

### Features

- 160-10 meters
- AF Notch
- CW Reverse
- 100 Memories
- Dual Mode NB
- XIT/RIT
- IF Shift
- Keypad Entry
- All Mode Squelch
- RF Speech Processor

### Latest Update from Jim, AL7FS

I have found the **microphone, now included**. Also this package will include a DVD with the Operators Manual AND the Service Manual.

The Kenwood TS-450S is a formidable transceiver covering 160 through 10 meters including the WARC bands with 100 watts input (40W AM). The TS-450S supports many advanced features such as keypad entry, VOX, 100 memories, XIT, RIT, Notch, IF Shift, Squelch and digital meter. This radio has a carry handle. Requires 13.8 VDC at 20.5 Amps.

\$400 with pickup only in Anchorage.

Jim Larsen, AL7FS

1-907-223-3548

If you have anything you'd like included in the next newsletter such as items for sale, articles, questions, etc. email *editor(at)kl7aa.org*

## **Your current AARC Board/Officers**

|                   |                      |                         |
|-------------------|----------------------|-------------------------|
| President         | Lara Baker AL2R      | president@kl7aa.org     |
| Vice-President    | Kent Petty KL5T      | vicepresident@kl7aa.org |
| Treasurer         | Jill Heimke WL7BTT   | treasurer@kl7aa.org     |
| Secretary         | Richard Tweet KL2AZ  | secretary@kl7aa.org     |
| Board 2019        | Lillian Marvin KL7YF | No email                |
| Board 2019        | Rich Gillin AL4S     | Rich.gillin@kl7aa.org   |
| Board 2018        | T.J. Sheffield KL7TS | Tj.sheffield@kl7aa.org  |
| Board 2018        | Keith Clark KL7MM    | trustee@kl7aa.org       |
| Board 2020        | Alice Baker KL2GD    | Alice.baker@kl7aa.org   |
| Board 2020        | Jim Wiley KL7CC      | Jim.wiley@kl7aa.org     |
| Board 2020        | Matt Ostrander KL4QH | kl4qh@kl7aa.org         |
| APRS              | Kevin Opalka KL2NV   |                         |
| Activities        | Allen Abbott KB1QCE  | activities@kl7aa.org    |
| Trustee           | Keith Clark KL7MM    | trustee@kl7aa.org       |
| Newsletter Editor | Dave Webb N9AIG      | editor@kl7aa.org        |
| Membership        | Rich Gillin AL4S     | membership@kl7aa.org    |
| VE Testing        | Kent Petty KL5T      | ve@kl7aa.org            |
| Webmaster         | Rich Gillin AL4S     | webmaster@kl7aa.org     |
| Internet/Network  | Rich Gillin AL4S     | ip@kl7aa.org            |



## Support Amateur Radio in Anchorage, Alaska

Donate online or mail this coupon to AARC, PO Box 190192, Anchorage, AK 99519

Online donation is convenient and secure at <https://kl7aa.org/>, select donations at the top right of the home page.

Name: \_\_\_\_\_

I want to make a one-time general donation

\$25  \$50  \$75  \$100  \$250  \$ \_\_\_\_\_

Address: \_\_\_\_\_

I want to make regular monthly donations. Thank you for your ongoing support! Indicate the monthly amount:

\$25  \$50  \$75  \$100  \$250  \$ \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

I want to sponsor a specific project/program.  
Sponsorships are \$25 monthly

Please send me a supply of donation envelopes

Please charge my credit card below

Phone: \_\_\_\_\_

Total donation: \$ \_\_\_\_\_



Why donate? The Anchorage Amateur Radio Club is a nonprofit organization (501C3) that supports community program communications such as the Anchorage RunFest, Walk and Roll for Hope, the Dog Jog, Tour de Cure, Alaska Run for

Women, The Women's Gold Nugget Triathlon and Team Rubicon. We also periodically practice our emergency communication skills in case of a major disaster such as an earthquake. Our equipment is both battery and generator backed up. We are run only by donations and volunteers. Please donate to this worthy organization.

Check or money order enclosed

VISA  MasterCard Exp: \_\_\_\_\_ CVV code: \_\_\_\_\_

Account # \_\_\_\_\_

Signature: \_\_\_\_\_

I would like to be kept up to date on AARC activities; please send me your monthly newsletter